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› BORLA 140443 Cat-Back Performance Exhaust System User Manual for 2011-2014 Chrysler 300/Dodge Charger R/T 5.7L V8

Borla 140443

BORLA 140443 Cat-Back Performance Exhaust System User Manual

For 2011-2014 Chrysler 300 / Dodge Charger R/T 5.7L V8 (Automatic Transmission, All Wheel Drive & Rear Wheel Drive)

1. PRODUCT OVERVIEW

The Borla 140443 Cat-Back Performance Exhaust System is engineered for specific 2011-2014 Chrysler 300 and Dodge Charger R/T 5.7L V8 models. This system is designed to replace the factory exhaust from the catalytic converter back, aiming to optimize exhaust gas flow. It features patented straight-through and multi-core technology. The system is constructed from premium austenitic T-304 stainless steel, utilizing ultra-smooth mandrel bends for consistent flow and precision computer-controlled CNC manufacturing for accurate fitment.



This image displays all the components included in the Borla 140443 Cat-Back Performance Exhaust System. It features an X-pipe section, two main mufflers, two over-axle pipes, and two tailpipes, along with various clamps for secure installation. All components are constructed from T-304 stainless steel.

Key Features:

- **Material:** T-304 Stainless Steel construction.
- **Installation:** Designed for bolt-on installation.
- **Construction:** All welded construction for durability.
- **Manufacturing:** Made in the USA.
- **Sound Profile:** Produces a characteristic Borla exhaust note.

2. COMPONENTS LIST

The Borla 140443 Cat-Back Performance Exhaust System typically includes the following components:

- X-Pipe Assembly
- Left and Right Muffler Assemblies
- Left and Right Over-Axle Pipes
- Left and Right Tailpipes with Exhaust Tips
- Necessary Clamps and Hardware for Installation

Note: Specific component counts and designs may vary slightly. Refer to the packaging for a precise list of included parts.

3. SETUP AND INSTALLATION

Installation of the Borla 140443 Cat-Back Performance Exhaust System is designed as a direct bolt-on replacement for the factory exhaust. While this system is engineered for straightforward installation, professional installation by a qualified mechanic is recommended to ensure proper fitment, alignment, and safety.

General Installation Guidelines:

1. **Safety First:** Ensure the vehicle is securely lifted on a hoist or jack stands on a level surface. Allow the exhaust system to cool completely before beginning work. Wear appropriate personal protective equipment, including gloves and eye protection.
2. **Remove OEM System:** Carefully unbolt and remove the existing factory cat-back exhaust system. This may involve cutting the original exhaust pipes in some cases, depending on the vehicle model and factory design.
3. **Assemble Borla System:** Begin assembling the Borla system, starting from the front (near the catalytic converters) and working towards the rear. Do not fully tighten clamps or bolts until the entire system is in place and properly aligned.
4. **Align and Adjust:** Ensure all pipes, mufflers, and tips are correctly positioned and have adequate clearance from the vehicle's chassis, suspension, and bodywork. Adjust hangers as needed.
5. **Tighten Hardware:** Once alignment is satisfactory, progressively tighten all clamps and bolts to the manufacturer's recommended torque specifications.
6. **Final Inspection:** Start the vehicle and check for any exhaust leaks. Listen for rattles or vibrations. Ensure all connections are secure.

For detailed, step-by-step instructions, always refer to the specific installation guide provided with your Borla exhaust system.

4. OPERATING CHARACTERISTICS

Upon installation, the Borla 140443 Cat-Back Performance Exhaust System will alter the vehicle's exhaust sound. This system is designed to produce a more pronounced and characteristic exhaust note compared to the factory system. Drivers may also notice changes in engine response due to improved exhaust flow.

Considerations for V8 Engines with Cylinder Deactivation (MDS/ECO Mode):

Some 5.7L V8 engines feature cylinder deactivation technology (e.g., MDS or ECO mode), which allows the engine to run on fewer cylinders under light load conditions to improve fuel efficiency. When the engine operates in this mode with an aftermarket exhaust system, a phenomenon known as 'drone' may occur. Drone is a low-frequency resonance that can be perceived inside the cabin.

If drone is experienced during ECO mode operation, it can often be mitigated by:

- Disabling ECO mode if the vehicle offers this option.
- Shifting the transmission into a manual or sport mode to prevent cylinder deactivation.
- Adjusting driving habits to avoid sustained speeds or loads that trigger ECO mode.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your Borla exhaust system.

General Maintenance Tips:

- **Regular Cleaning:** Clean the exhaust tips regularly with a non-abrasive cleaner to remove carbon buildup and road grime. For stainless steel, a mild soap and water solution followed by a polish designed for stainless steel can maintain its appearance.
- **Periodic Inspection:** Periodically inspect the entire exhaust system for loose clamps, bolts, or hangers. Check for any signs of damage, cracks, or corrosion, especially after driving in harsh conditions (e.g., salted roads).
- **Check for Leaks:** Listen for any unusual hissing or blowing sounds that might indicate an exhaust leak. Address any leaks promptly to maintain optimal performance and prevent potential safety hazards.
- **Avoid Harsh Chemicals:** Do not use harsh abrasive cleaners or steel wool on the stainless steel components, as this can scratch the surface or lead to rust.

6. TROUBLESHOOTING

This section addresses common issues that may arise with an aftermarket exhaust system.

Common Issues and Solutions:

- **Excessive Noise or Rattling:**
 - Check all clamps and bolts for tightness.
 - Ensure exhaust pipes and mufflers have adequate clearance from the chassis, heat shields, and other vehicle components. Adjust hangers if necessary.
 - Inspect for any loose internal components within the mufflers (rare for Borla, but possible).

- **Exhaust Leaks:**

- Visually inspect all connection points for gaps or signs of soot.
- Tighten clamps or replace gaskets if necessary.
- A smoke test can help pinpoint small leaks.

- **Drone (Low-Frequency Resonance):**

- As mentioned in the Operating Characteristics section, drone can occur in vehicles with cylinder deactivation.
- Try disabling ECO mode or using manual transmission mode to prevent cylinder deactivation.
- Ensure the system is properly aligned and not touching any part of the vehicle that could transmit vibrations.

- **Discolored Exhaust Tips:**

- This is typically carbon buildup and is normal. Clean with a suitable stainless steel cleaner.

If issues persist after troubleshooting, contact Borla customer support or consult a professional mechanic.

7. SPECIFICATIONS

Specification	Detail
Model Number	140443
Brand	Borla
Manufacturer	Borla
Compatibility	2011-2014 Chrysler 300 / Dodge Charger R/T 5.7L V8 (Automatic Transmission, All Wheel Drive & Rear Wheel Drive)
System Type	Cat-Back Exhaust System
Material	T-304 Austenitic Stainless Steel
Installation Type	Bolt-On
Item Weight	Approximately 57 pounds
Exterior Finish	Painted (referring to the overall system finish, typically a brushed or polished stainless steel look)
Manufacturer Part Number	140443
OEM Part Number	140443
ASIN	B006DAD2BK
Date First Available	September 20, 2011

8. WARRANTY INFORMATION

Borla Performance Industries typically offers a Million-Mile Warranty on their stainless steel exhaust systems, covering defects in material and workmanship for the life of the vehicle on which it was originally installed. This warranty is generally non-transferable.

For complete and up-to-date warranty terms and conditions, please refer to the official Borla website or the warranty documentation included with your product.

9. SUPPORT

For technical assistance, installation inquiries, or warranty claims, please contact Borla customer support directly.

Contact Information:

- **Website:** Visit the official Borla website for support resources, FAQs, and contact details.
- **Phone:** Refer to the Borla website or product packaging for customer service phone numbers.

When contacting support, please have your product model number (140443) and vehicle information readily available.